

THIS ENTIRE LOS SECTION IS FOR B-W PARKWAY GUARDWALLS

\$\$618.01

Section 618.--CONCRETE BARRIERS AND PRECAST GUARDWALLS

\$\$618.02

618.02. Delete the text and substitute the following:

- (a) Furnish portland cement according to Subsection 701.01, except that cement shall be Type I or Type III, AASHTO M85, both white and gray or mixtures of white and gray, including pure mineral oxide pigments for coloring.
- (b) Furnish fine and coarse aggregates according to Subsections 703.01 and 703.02, except that facing aggregates, including both fine and coarse aggregates of the artificial stone facing, shall consist of limestone, quartz, and mica, including silicious stones according to ASTM C 33.
- (c) Furnish a cold applied gray polyurethane sealant meeting the requirements of ASTM C 920, Type S, Grade NS, Class 25. The joint sealants shall match the color of the false joints. Furnish backer rod conforming to Subsection 712.01(g).
- (d) Furnish reinforcing steel conforming to Subsection 709.01, AASHTO M 31M, Grade 400. Reinforcing steel bars located less than 50 mm from an exposed face, shall be either epoxy coated or galvanized. Furnish galvanized welded wire fabric.
- (e) Furnish Class A(AE) concrete with air entrained in the mix $6\% \pm 2\%$ by volume. In mixes containing coarse aggregates 9.5 mm or less in size, air entrained shall be $7\% \pm 2\%$ by volume. All concrete shall attain a 28-day minimum compressive strength of 27.6 MPa according to AASHTO T 22. Take a sufficient number of concrete cylinder samples for 7, 14, and 28-day compressive strength tests.
- (f) Furnish non-corrosive (galvanized or epoxy coated) bolts, inserts, and ties.
- (g) Furnish bedding material conforming to Subsection 703.03 for AASHTO M 43, size No. 57.

\$\$618.03

618.05. Add the following before the first paragraph:

\$\$618.04

The sample guardwall is located at the _____.

\$\$618.05

Furnish a guardwall with a simulated stone surface on both sides and ends of the guardwall and with an integral coping.

Submit the supplier's qualifications and certifications according to Subsection 104.03. Furnish a certification from the supplier stating that they have experienced personnel, physical facilities, established quality control procedures, and management capability to produce the required segments

without delay to the project. The precast guardwall supplier shall have a minimum of 5 years experience in manufacturing architectural and structural precast concrete units.

Formulate all facing mixtures, backing mixes where required, and structural concrete backup to produce concrete mix designs of similar aggregate-cement ratios to minimize differences in shrinkage factors and coefficients of thermal expansion and contraction.

The color of all exposed concrete shall extend a minimum of 25 mm into the concrete. Construct precast concrete mowing strips and false joints that are uniform gray in color.

Provide cap stones that span the entire width of the wall.

\$\$618.06

618.05(c). Delete the fourth sentence and substitute the following:

Prepare the foundation, compacting the bedding material with a minimum of 3 passes of a vibratory roller to ensure maximum consolidation, and place the sections.

\$\$618.07

618.05(c). Delete the second paragraph and substitute the following:

At 30 m intervals and at low points in the guardwalls, dig outlet ditches and backfill with 150 mm of bedding material.

\$\$618.08

618.08. Add the following:

The CO will accept precast segments on the basis of material tests on the quality of the concrete and the CO's visual inspection. Perform all necessary sampling and testing.

\$\$618.09

618.10. Delete pay item 61802 and substitute the following:

<u>Pay Item</u>		<u>Pay Unit</u>
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\$\$618.10

61802	Precast concrete guardwall, type __	Meter
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